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A61K 47/10 (2006.01)

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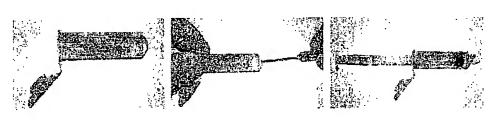
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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: GEL-BASED DELIVERY OF RECOMBINANT ADENO-ASSOCIATED VIRUS VECTORS



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(57) Abstract: Disclosed are water-soluble gel-based compositions for the delivery of recombinant adeno-associated virus (rAAV) vectors that express nucleic acid segments encoding therapeutic constructs including peptides, polypeptides, ribozymes, and catalytic RNA molecules, to selected cells and tissues of vertebrate animals. Also disclosed are gel-based rAAV compositions are useful in the treatment of mammalian, and in particular, human diseases, including for example, cardiac disease or dysfunction, and musculoskeletal disorders and congenital myopathies, including, for example, muscular dystrophy, acid maltase deficiency (Pompe's disease), and the like. In illustrative embodiments, the invention provides rAAV vectors comprised within a biocompatible gel composition for enhanced viral delivery/transfection to mammalian tissues, and in particular to vertebrate muscle tissues such as a human heart or diaphragm tissue.

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	10 (continuation of second sheet) (January 2004)			

Box II Observations where certain claims were found unsearchable (Continuation of Item 2 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
Although claims 32-47 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
see additional sheet
1. As all required additional search fees were timely paid by the applicant; this international Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. X No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the Invention first mentioned in the claims; it is covered by claims Nos.: 46 (entirely); 1-45, 47 (partially)
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 46 (entirely); 1-45,47 (partially)

Pharmaceutical use of a gel-formulation of adeno-associated viral vector comprising acid alpha-glucosidase (Gaa) for the treatment of Pompe disease.

2. claims: 1-45,47 (partially)

Pharmaceutical use of a gel-formulation of adeno-associated viral vector comprising dystrophin for the treatment of Duchenne muscular dystrophy.

3. claims: 1-45,47 (partially)

Pharmaceutical use of a gel-formulation of adeno-associated viral vector comprising alpha-l antitrypsin for the treatment of a muscular myopathy / dystrophy.

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